



#10 ✓ 7/26/03

EXPRESS MAIL LABEL NO. EU746739503US

Attorney Docket No. 63049.000037

Attorney Customer No. 27682

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re US Patent Application of: )

Ronald D. BLUM et al. )

Application No.: 10/046,244 )

Group Art Unit: 2873

Filing Date: January 6, 2002 )

Examiner: J. Stultz

Title: ELECTRO-OPTIC LENS WITH  
INTEGRATED COMPONENTS )

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Attached hereto is a duly completed PTO-1449 Form listing references which may be considered either material or helpful to the examination of the above-identified patent application. It is requested that these references be considered by the Examiner and officially made of record.

Respectfully submitted,

By: 

J. Michael Martinez de Andino  
Registration No. 37,178

**Hunton & Williams**  
Riverfront Plaza, East Tower  
951 East Byrd Street  
Richmond, VA 23219-4074  
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Date: July 11, 2003



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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**  
**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is an Information Disclosure Statement, accompanying form PTO-1449 and a copy of references in connection with the above-identified patent application.

- ☐ No additional fee for submission of an IDS is required.
- ☒ The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is also enclosed.
- ☐ A certification under 37 C.F.R. §1.97(e) is also enclosed.
- ☐ A certification under 37 C.F.R. §1.97(e), a petition requesting consideration of the information disclosure statement, and the petition fee of \$130.00 as set forth in 37 C.F.R. §1.17(i) are also enclosed.
- ☐ Charge \$\_\_\_\_\_ to Deposit Account No. 08-3436 for the fee due.

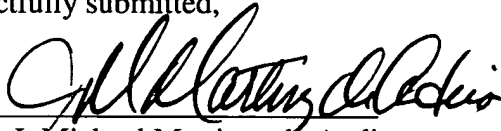
[ X ] An Express Mail Certificate Under 37 C.F.R. §1.10.

[ X ] A self-addressed stamped return postcard.

The Commissioner is hereby authorized to charge any appropriate fees that may be required by this paper to Deposit Account No. 08-3436.

Respectfully submitted,

By:

  
J. Michael Martinez de Andino  
Registration No. 37,178

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Attorney Docket No. 63049.000037  
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**CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. §1.10**

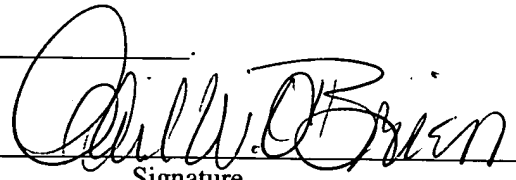
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I hereby certify that this correspondence is being deposited with the United States Postal Service  
with sufficient postage as Express Mail in an envelope addressed to:

Commissioner for Patents  
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Alexandria, VA 22313-1450

on July 11, 2003  
Date

  
Signature

Gail W. O'Brien  
Typed or printed name of person signing Certificate

Express Mail Certificate  
Attorney Docket No. 63049.000037

Documents being submitted with this Certificate of Express Mailing include:

- Supplemental Information Disclosure Statement
- Form PTO-1449 and references
- Check No. 292738 in the amount of \$180.00 for the fee
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Sheet 1 of 7

Form PTO-1449 U.S. Department of Commerce  
(Rev. 8-83) Patent and Trademark Office

Atty. Docket No.: 63049.000037

Application No.: 10/046,244

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Ronald D. Blum et al.

Filing Date: January 6, 2002

Group: 2873

### U.S. PATENT DOCUMENTS

Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	1	Re. 35,691	12/16/97	Theirl et al.			
	2	D 298,250	10/25/88	Kildall			
	3	D 342,063	12/7/93	Howitt et al.			
	4	D 350,342	9/6/94	Sack			
	5	2,437,642	3/9/48	Henroteau			
	6	2,576,581	11/27/51	Edwards			
	7	3,161,718	12/15/64	de Luca			
	8	3,245,315	4/12/66	Marks et al.			
	9	3,614,215	10/19/71	Mackta			
	10	3,738,734	6/12/73	Tait et al.			
	11	4,174,156	11/13/79	Glorieux			
	12	4,181,408	1/1/80	Senders			
	13	4,190,330	2/26/80	Berreman			

Examiner:

Date Considered:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\* Previously cited in 6/14/2002 IDS

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<b>Form PTO-1449</b> U.S. Department of Commerce (Rev. 8-83) Patent and Trademark Office		Atty. Docket No.: 63049.000037		Application No.: 10/046,244			
<b>INFORMATION DISCLOSURE STATEMENT</b>							
(Use several sheets if necessary)							
				Applicant: Ronald D. Blum et al.			
				Filing Date: January 6, 2002		Group: 2873	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	14	4,264,154	4/28/81	Petersen			
	15	4,279,474	7/21/81	Belgorod			
	16	4,300,818	11/17/81	Schachar			
	17	4,373,218	2/15/83	Schachar			
	18	4,395,736	7/26/83	Frleux			
	19	4,418,990	12/6/83	Gerber			
	20	4,457,585	7/3/84	DuCorday			
	21	4,466,706	8/21/84	Lamothe, II			
	22	4,529,268	7/16/85	Brown			
	23	4,564,267	1/14/86	Nishimoto			
	24	4,572,616	2/25/86	Kowel et al.			
	25	4,577,928	3/25/86	Brown			
	26	4,601,545	7/22/86	Kern*			
	27	4,609,824	9/2/86	Munier et al.			
	28	4,712,870	12/15/87	Robinson et al.			
	29	4,756,605	7/12/88	Okada et al.			
Examiner:				Date Considered:			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * Previously cited in 6/14/2002 IDS							

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Application No.: 10/046,244

**INFORMATION DISCLOSURE  
STATEMENT**

(Use several sheets if necessary)

Applicant: Ronald D. Blum et al.

Filing Date: January 6, 2002

Group: 2873

**U.S. PATENT DOCUMENTS**

Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	30	4,772,094	9/20/88	Sheiman			
	31	4,795,248	1/3/89	Okada et al.			
	32	4,818,095	4/4/89	Takeuchi			
	33	4,836,652	6/6/89	Oishi et al.			
	34	4,880,300	11/14/89	Payner et al.			
	35	4,904,063	2/27/90	Okada et al.			
	36	4,907,860	3/13/90	Noble			
	37	4,919,520	4/24/90	Okada et al.			
	38	4,927,241	5/22/90	Kuijk			
	39	4,929,865	5/29/90	Blum			
	40	4,930,884	6/5/90	Tichenor et al.			
	41	4,945,242	7/31/90	Berger et al.			
	42	4,952,788	8/28/90	Berger et al.			
	43	4,958,907	9/25/90	Davis			

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**U.S. PATENT DOCUMENTS**

Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	44	4,961,639	10/9/90	Lazarus			
	45	4,968,127	11/6/90	Russell et al.			
	46	4,981,342	1/1/91	Fiala			
	47	4,991,951	2/12/91	Mizuno et al.			
	48	5,015,086	5/14/91	Okaue et al.			
	49	5,030,882	7/9/91	Solero			
	50	5,066,301	11/19/91	Wiley			
	51	5,073,021	12/17/91	Marron			
	52	5,076,665	12/31/91	Petersen			
	53	5,091,801	2/25/92	Ebstein			
	54	5,108,169	4/28/92	Mandell			
	55	5,130,856	7/14/92	Tichenor et al.			
	56	5,142,411	8/25/92	Fiala			
	57	5,171,266	12/15/92	Wiley et al.			
	58	5,182,585	1/26/93	Stoner			

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<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	59	5,184,156	2/2/93	Black et al.			
	60	5,200,859	4/6/93	Payner et al.			
	61	5,208,688	5/4/93	Ferguson et al.			
	62	5,229,885	7/20/93	Quaglia			
	63	5,239,412	8/24/93	Naka et al.			
	64	5,306,926	4/26/94	Yonemoto			
	65	5,324,930	6/28/94	Jech, Jr.			
	66	5,352,886	10/4/94	Kane			
	67	5,359,444	10/25/94	Piosenka et al.*			
	68	5,375,006	12/20/94	Haas			
	69	5,382,986	1/17/95	Black et al.*			
	70	5,440,357	8/8/95	Quaglia			
	71	5,443,506	8/22/95	Garabet			
	72	5,451,766	9/19/95	Van Berkel			
	73	5,488,439	1/30/96	Weltmann*			
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<b>Form PTO-1449</b> U.S. Department of Commerce (Rev. 8-83) Patent and Trademark Office		Atty. Docket No.: 63049.000037		Application No.: 10/046,244			
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<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	74	5,522,323	6/4/96	Richard			
	75	5,608,567	3/4/97	Grupp			
	76	5,615,588	4/1/97	Gottschald*			
	77	5,654,786	8/5/97	Bylander			
	78	5,712,721	1/27/98	Large			
	79	5,728,155	3/17/98	Anello et al.			
	80	5,739,959	4/14/98	Quaglia			
	81	5,777,719	7/7/98	Williams et al.			
	82	5,815,233	9/29/98	Morokawa et al.			
	83	5,861,936	1/19/99	Sorenson			
	84	5,900,720	5/4/99	Kallman et al.			
	85	5,949,521	9/7/99	Williams et al.			
	86	5,980,037	11/9/99	Conway			
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Subclass	<u>Translation</u> Yes No
	1	WO 98/27863	7/2/98	WIPO			X
	2	0 154 962 A2	9/18/85	EPO			X
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Sheet 7 of 7

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**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	3	0 233 104 A1	8/19/87	EPO			X (Abstract)
	4	0 237 365 A1	9/16/87	EPO			X (Abstract)
	5	1-237610	9/22/89	Japan			X (Abstract)
	6	2169417A	7/09/86	UK			X
	7	2170613A	8/6/86	UK			X
	8	ROC 89113088		China			X
	9	55-076323	6/9/80	Japan			X (Abstract)

Examiner  
Initial\***OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	"Focusing by Electrical Modulation of Refraction in a Liquid Crystal Cell"; Stephen T. Kowel et al., <i>Applied Optics</i> , Vol. 23, No. 2, January 15, 1984, pp. 278-289
	2	"Computer Vision Syndrome - The Eyestrain Epidemic"; Robert A. Davis, O.D., <i>Review of Optometry</i> , September 15, 1997, pp. 80-88
	3	"The Use of Yoked Base-Up and Base-In Prism for Reducing Eye Strain at the Computer"; Stuart M. Lazarus, O.D., <i>Journal of the American Optometric Association</i> , April 1996, pp. 204-208
	4	<i>Eyecare Business</i> , October 1997 (entire issue)
	5	"Vision Through a Liquid-Crystal Spatial Light Modulator"; Larry N. Thibos et al., <i>Inpress</i> , Adaptive Optics Conference, Durham, United Kingdom, 1999
	6	"Requirements for Segmented Spatial Light Modulators for Diffraction-Limited Imaging Through Aberrated Eyes"; Larry N. Thibos et al., <i>Inpress</i> , Adaptive Optics Conference, Durham, United Kingdom, 1999
	7	"Use of Liquid-Crystal Adaptive-Optics to Alter the Refractive State of the Eye"; Larry N. Thibos et al., <i>Optometry and Vision Science</i> , Vol. 74, No. 7, July 1997
	8	"Electronic Spectacles for the 21 <sup>st</sup> Century", Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D., <i>Indiana Journal of Optometry</i> , Vol. 2, No. 1, pp. 5-10, 1999

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